

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

Nilles et al.

**Serial No.:** To be assigned

**Filed:** July 18, 2003

**For:** VACCINE FOR YERSINIA SPECIES

**Examiner:** To be assigned

**Group Art Unit:** To be assigned

**Attorney Docket No.:** 3128-6046US

**NOTICE OF EXPRESS MAILING**

Express Mail Mailing Label Number: EV348041413US

Date of Deposit with USPS: July 18, 2003

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 or PTO/SB/08 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56(b) exists.

**U.S. Patent Documents**

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
US - 5,985,285	11-16-1999	Titball et al.

**Foreign Patent Documents**

<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee</u>
WO 96/28551	09-19-1996	Secretary of State for Defence
WO 95/18231	07-06-1995	Secretary of State for Defence

**Other Documents**

8th International Symposium on Yersinia, September 4-8, 2002. Turku, Finland.

BENNER et al., Immune Response to Yersinia Outer Proteins and Other Yersinia pestis Antigens after Experimental Plague Infection in Mice, *Infection and Immunity*, Apr. 1999, pp. 1922-28, Vol. 67, No. 4.

EDQVIST et al., YscP and YscU Regulate Substrate Specificity of the Yersinia Type III Secretion System, *Journal of Bacteriology*, Apr. 2003, pp. 2259-66, Vol. 185, No. 7.

HOICZYK et al., Polymerization of a single protein of the pathogen *Yersinia enterocolitica* into needles punctures eukaryotic cells, *PNAS*, April 10, 2001, pp. 4669-74, Vol. 98, No. 8.

TITBALL et al., Vaccination against bubonic and pneumonic plague, *Vaccine*, 2001, pp. 4175-84, Vol. 19.

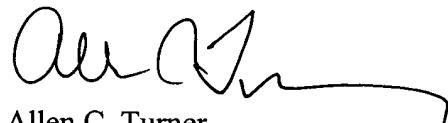
WILLIAMSON, E.D., Plague vaccine research and development, *Journal of Applied Microbiology*, 2001, pp. 606-08, Vol. 91.

WILSON et al., Role of EscF, a putative needle complex protein, in the type III protein translocation system of enteropathogenic *Escherichia coli*, *Cellular Microbiology*, 2001, pp. 753-62, Vol. 3, No. 11.

**Attorney Docket No.: 3128-6046US**

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. § 1.17(p) is required.

Respectfully submitted,



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Date: July 18, 2003  
ACT/bv

Enclosures: Form PTO-1449 or PTO/SB/08  
Cited Documents

Document in ProLaw

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<i>Information Disclosure Statement by Applicant</i>	
		<i>Complete if Known</i>	
		Application Number	To be assigned
		Filing Date	July 18, 2003
		First Named Inventor	Nilles et al.
		Group Art Unit	To be assigned
		Examiner Name	To be assigned
		Attorney Docket Number	3128-6046US
(use as many sheets as necessary)			
Sheet	1	of	2

## **U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

Examiner Signature		Date Considered	
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**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				<i>Complete if Known</i>	
		Application Number	To be assigned		
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		First Named Inventor	Nilles et al.		
		Group Art Unit	To be assigned		
		Examiner Name	To be assigned		
		Attorney Docket Number	3128-6046US		
Sheet	2	of	2		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
		8th International Symposium on Yersinia, September 4-8, 2002. Turku, Finland.		
		BENNER et al., Immune Response to Yersinia Outer Proteins and Other Yersinia pestis Antigens after Experimental Plague Infection in Mice, Infection and Immunity, Apr. 1999, pp. 1922-28, Vol. 67, No. 4.		
		EDQVIST et al., YscP and YscU Regulate Substrate Specificity of the Yersinia Type III Secretion System, Journal of Bacteriology, Apr. 2003, pp. 2259-66, Vol. 185, No. 7.		
		HOICZYK et al., Polymerization of a single protein of the pathogen Yersinia enterocolitica into needles punctures eukaryotic cells, PNAS, April 10, 2001, pp. 4669-74, Vol. 98, No. 8.		
		TITBALL et al., Vaccination against bubonic and pneumonic plague, Vaccine, 2001, pp. 4175-84, Vol. 19.		
		WILLIAMSON, E.D., Plague vaccine research and development, Journal of Applied Microbiology, 2001, pp. 606-08, Vol. 91.		
		WILSON et al., Role of EscF, a putative needle complex protein, in the type III protein translocation system of enteropathogenic Escherichia coli, Cellular Microbiology, 2001, pp. 753-62, Vol. 3, No. 11.		

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